

Executive Overview EX-201



Agenda

Course Mission Statement

- ERP Overview
- Major Terms & Concepts
- SMART Integrated Scenarios
- SAP Repair Cycle
 Demonstration



To provide the tools to understand ERP and its impacts to the Navy and to demonstrate a real-world scenario of the Navy's use of ERP. In other words:

"To know the right questions to ask and to understand the answers given."



ERP Overview

- **Why ERP?**
- What's our approach?
- What investment is required?
- What will it buy the Navy?



Why ERP?

- ERP is <u>NOT</u> about IT or software!
- **ERP** is about how business is done
 - Reengineer business processes
 - **Establish common data and practices**
 - Sestablish Single Entry Single Source
 - Reduce number of applications
 - Sestablish End-to-End process connectivity
 - Comply with Federal financial standards
 - **○Enable effective implementation of Activity Based Costing (ABC)**

Relationship to NAUSUP NAVAL SUPPLY SYSTEMS COMMAND HE EXISTING Systems

- Provides backbone to leverage best commercial business practices
- Replaces legacy systems requiring upgrades
- Capitalizes on Navy, Other Services, and DOD Investments
- Provides the means to achieve common ashore / afloat processes
- Enhances speed and accuracy in decision making
- \bigcirc Enables eBusiness extensions



A Response to NAVAL SUPPLY SYSTEMS COMMAND HEADQUARERS CUrrent Theme...

Disparate databases

Suspect data integrity

Financial, maintenance, and supply data not linked

Multiple sources of data means multiple answers single question

Result ... months to answer a question and conflicting answers

From FHP CEB III **16 November 2000**

AVDLR Cost Growth...Why so hard to

answer?<u>Disparate data bases, suspect data integrity, insufficient granularity</u>

Symptom

INCREASED CONSUMPTION

INCREASED

COST

Cause

Aging components? Declining component reliability? Bulletins? O & I level skill & manning? Parts availability? ILS disconnects? PRE/PRL shortfalls? FHP execution?

Maint. philosophy change?

Depth of repair increase?

Matl usage/cost growth? New product mix? Obsolescence? Overhead fluctuation? FHP execution?

AV3M/ICP/AIR 4.0/NADEPs AV3M/ICP/AIR 4.0/NADEPs Program Mgr/ICP/TYCOMs AMSR Top Level Metrics/TYCOMs DLA/ICP/TYCOMs/O&I Level Program Mgr/TYCOMs/ICP AIR3.0/Program Mgr/TYCOMS TYCOMS/NAVCOMPT/ICP

Data Sources

Program Mgr/ICP AIR 6.0 NADEPS/Com'l contractor NADEPs/Com'l contractor/ICP Program Mgr/TYCOMs/ICP AIR4.0/NADEPs/ICP/DLA ICP/DLA/NADEP TYCOMS/NAVCOMPT/ICP

Financial, Maintenance and Supply Data...NO LINK



(SUP/AIR)

What Is Our Approach?

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS POPOach?

Joint Vision 2020

Revolution in Business Affairs

investments that will cut our operating or business costs, such as Enterprise Resource Planning (ERP) and the Navy-Marine Corps Intranet (NMCI).

Aviation Supply/ Program Regional Navy Working Maintenance Management Maintenance Capital Fund

(SEA/CLF)

(SPAWAR)

(AIR)

DLA Business
System Modernization

Army Material
Command Logistics
Modernization

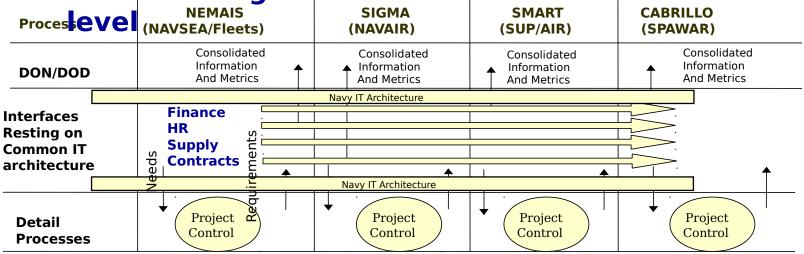
Military Sealift
Command



From Pilots to UARTER Enterprise

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTER ENTERPRISE

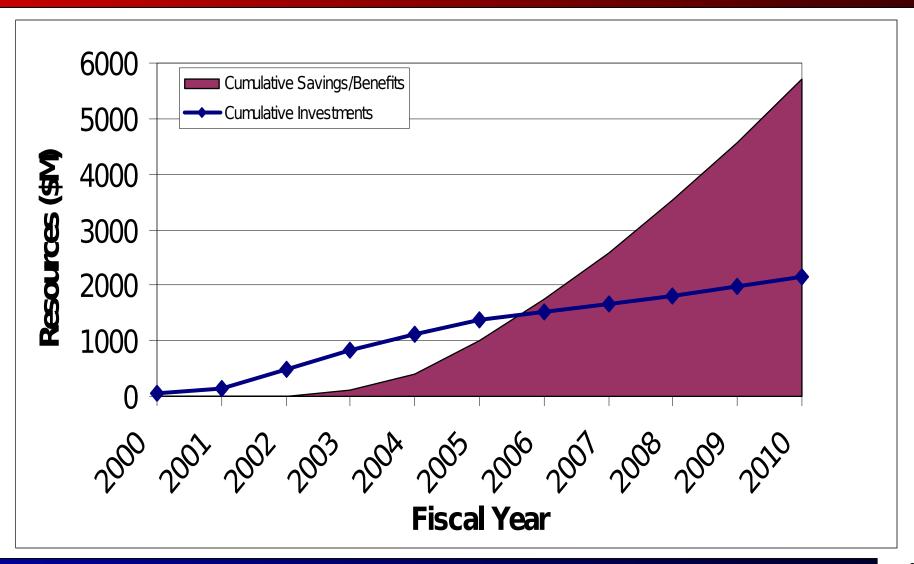
- The ERP programs drive efficiencies and data visibility at the individual business level
- Common functions (finance, maintenance, contracting, & supply) guarantee ability to roll-up data across Navy Enterprise
- ERP data is the means to provide useful metrics at the highest levels in real time based on reliable integrated data at the business unit





What Investment Is Required?

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTER REQUIRED?





What Will This Buy SUPPLY SYSTEMS COMMAND HEADQUARTER THE FIEET?

More product per dollar for the Fle SPAWAR FINANCIALS

Prior to ERP:

- 59 Internal systems
- 44 Internal Interfaces
- >20 separate databases
- O&M costs \$8.5M
- Batch accounting (High latency 1-3 weeks delay)
- Poor management reporting
- >80 Manual on-line Financial transactions (labor intensive)
- Multiple data inputs resulting in keypunch errors
- No ability to capture business or program costs

Under ERP:

JULY 2, 2001

- 75% reduction in IT applications and support
- O&M savings of \$4.8M
- Reduction of 15.2 work vears
- Real time accounting
- Tailored Mgt. reporting
- Automated financial transactions/ paperless work flow
- Data entered once
- Ability to capture costs (WBS, ABC/M, TOC, etc.)
- 2-3X speed increase in supply / financial processes



(Aircraft Grounding Bulletin)

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS

SITSUM: An F-14 tail hook from production lot 6453 fails premark NAVAIR recommends REDSTRIPE ... Ground all aircraft for insp

Currently:

- NAVAIR releases grounding bulletin to entire fleet
- Requires inspection of every tail hook
- → For 123 F-14s, remove, inspect and return to aircraft or BCM
- Inspect all tail hook inventories afloat and ashore, maintenance and supply
- All tail hooks are sent over time to NADEP for inspection
- Tail hooks are scheduled into NADEP as they are received
- Result, 123 F-14s grounded until inspection complete

Under ERP:

- NAVAIR queries the enterprise database ... locates all lot 6453 assets
- NAVAIR releases grounding bulletins real-time for 6 aircraft by tail number
- Uninstalled equipment records are red flagged in the enterprise database by serial number
- E-mails sent to selected supply & maintenance personnel afloat & ashore
- △ Affected tail hooks are "advance scheduled" for inspection at the NADEP
- Result, 6 F-14s grounded until inspection complete



Capabilities Enabled SUPPLY SYSTEMS COMMAND HEADQUARTERS

- Ability to make decisions with more speed and accuracy
- Ability to streamline and integrate Navy core business functions and processes
- Ability to Align DoN claimants to better support Navy goals using common processes and data
- Ability to more effectively tie Maintenance and **Support Budgets to Fleet metrics**
- Ability to provide insight into Program **Execution for plan costs and total ownership** costs using ABC/M, EVM, TOC

Major Terms & Concepts



Master Data

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS

Consistent and common data elements stored in tables that are necessary to process transactions across all modules of SAP.



- Vendor Master Record = Information about suppliers: address, CAGE. Data from the Central Contractor Registration [CCR]
- Material Master Record = Selected Item Record Info from weapons system file [NIIN, CAGE, Part Number]
- Equipment Master Record = Selected Item Record Info by Serial Number
- Customer Master Record = UIC [Address, Payment and Order data]



Hierarchies

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS

Structures of master data ordered to reflect organizational requirements for posting and reporting.



- Company Code = Legal entity based on fund type [NAVSUP Working Capital Supply Management (3200)]
- → Plant = Organization Code = Physical area where inventory is held or processed [AIMD in NALCOMIS is A9B = DH01 in SAP]
- Cost Center = Component of Cost Code Structure [7PP1000FAPRA] *Not a Direct Mapping* - Used in ABC/M to collect and assign expenses



- Storage Location = Purpose Code [A,W,L and building # for physical location]
- Functional Area = Weapons System [E2C2] or area within weapons system [E2C2 Landing Gear]
- **Sales Organization = Company Code**[NAVSUP Working Capital (3200)]



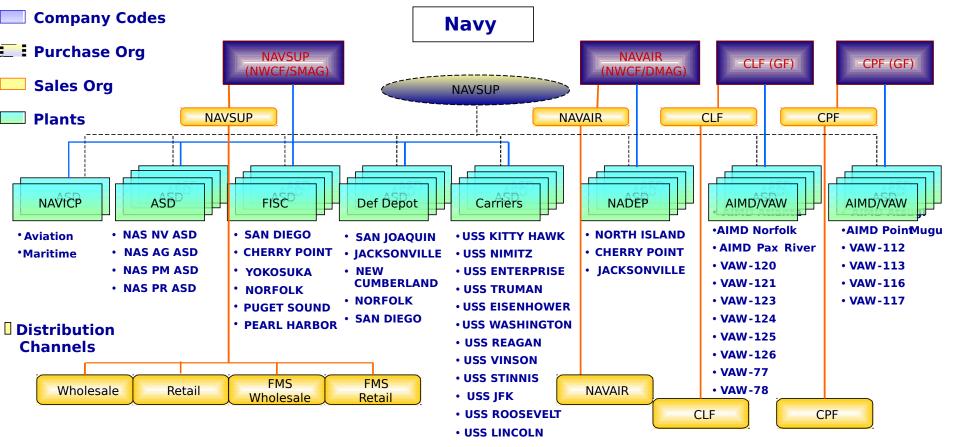
- Division = Organizational Code [Aviation Repairable, Aviation Consumable, Maritime Repairable, Maritime Consumable, Non-Navy Consumable]
- Functional Location = No current Navy Equivalent. For pilot, mapped to actual location of work center where equipment is installed [RADCOM Test Bench]



- Purchasing Organization = Navy Activity [NAVICP-PHIL/MECH]
- Purchase Groups = Contract Specialists [grouped by IWST]
- **○Maintenance Order = Maintenance Action Form [MAF]**

SMART SAP Business NAUSUP NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS Chitecture

Financial hierarchy is consistent with FMO standards
Plant structure supports material ownership and stocking po



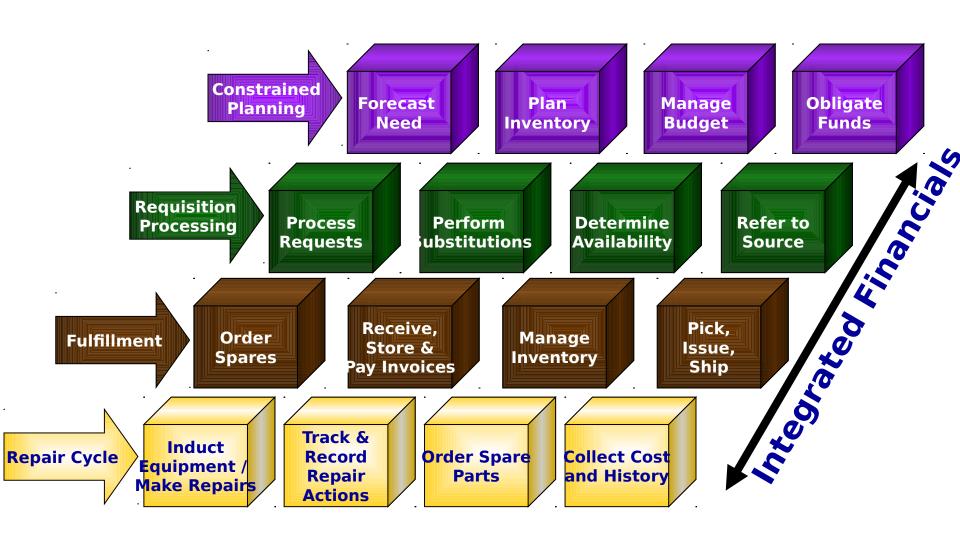
Vendor stock category - C& O repair (ExLockheadand NorthropGrummon)
Ghartered outsourced warehouse- stock NWCF materials; Mini stock point and PBLs (ex.

Client

SMART Integrated Scenarios

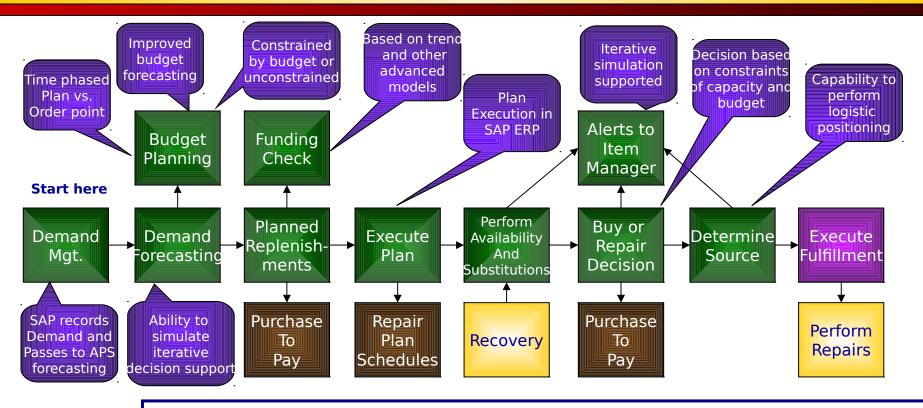


SMART Foundation For NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS TO PROCESSES





SMART Budget Constrained NAUSUP Planning and Logistics NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTER Management



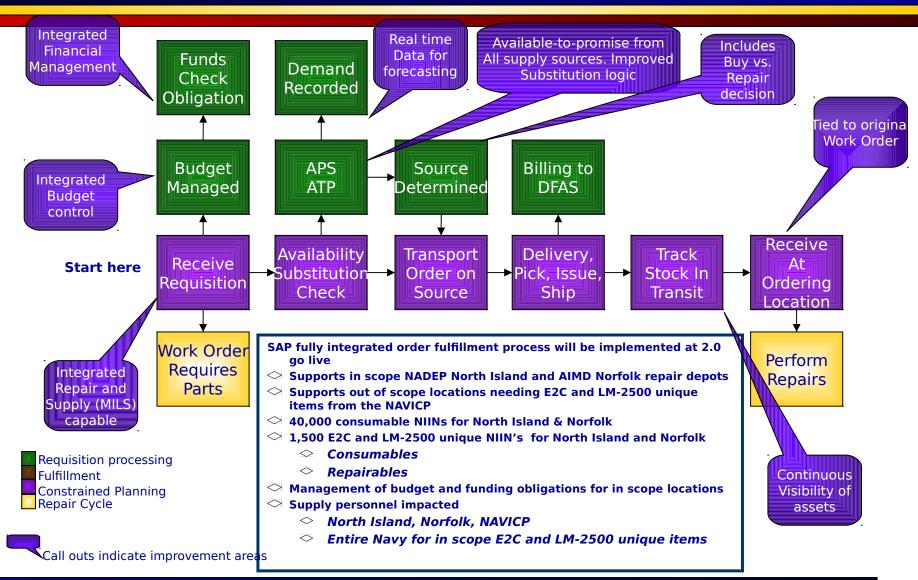
- Requisition processing Fulfillment Constrained Plannind Repair Cycle
- SAP fully integrated ERP on line transaction processing and execution with Manugistics advanced planning system (APS)
 - Supports the wholesale planning activities of the NAVICP
 - 1500 E2C and LM-2500 unique NIINs
 - Supports the planning of consumables at FISC North Island and RSO Norfolk
 - 40.000 NIINs
 - Supports the RSO planning of local repairable at Norfolk and North Island
 - Major improvement in the ability to perform budget constrained planning and to manage logistics execution based on budget constraints. (Set the plan and execute to it)

Call outs indicate improvement areas

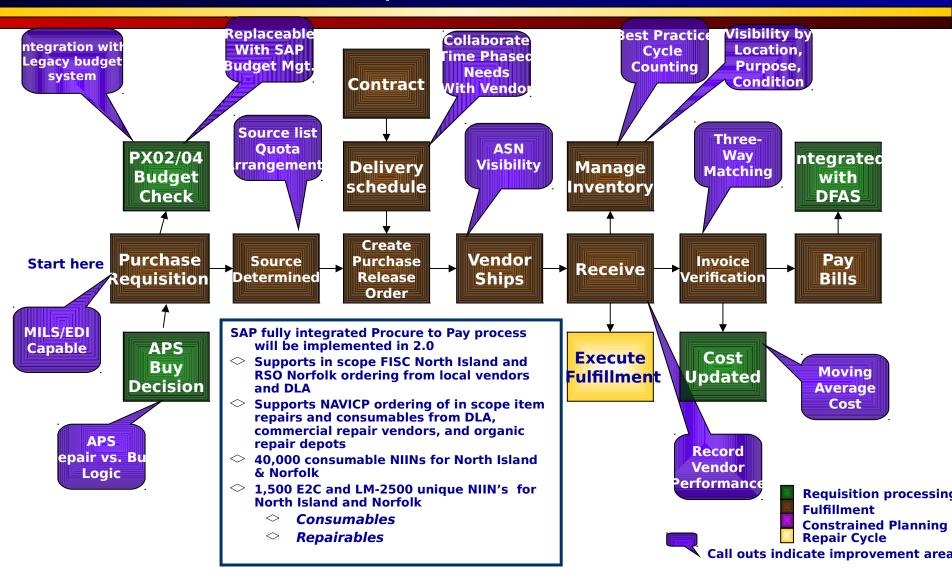


SMART Order Eulfillment

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS UI fill ment

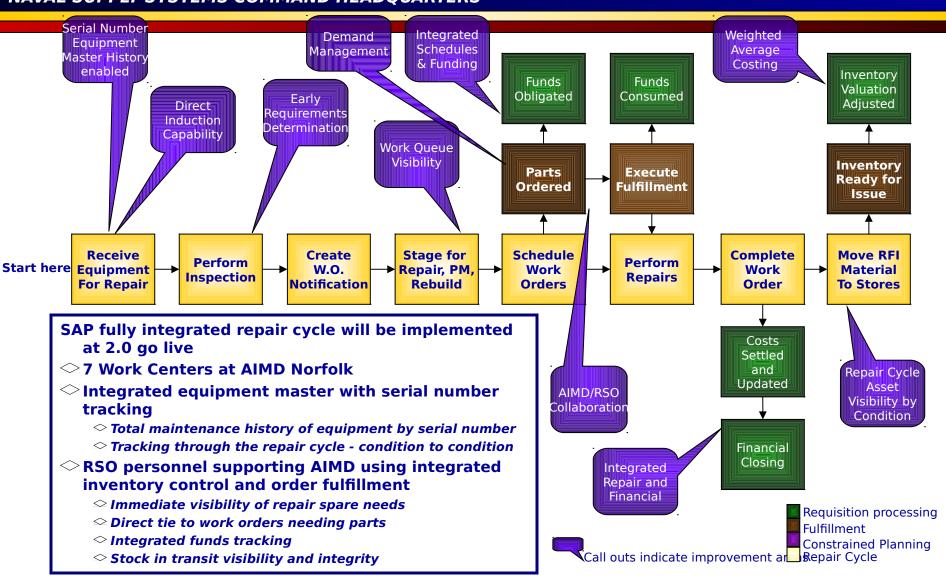


NAUSUR SMART Procure to Pay





SMART Repair Cycle





SAP Repair Cycle Demonstration

SAP Repair Cycle NAUSUP NAVAL SUPPLY SYSTEMS COMMAND HEADQUARE MONSTration

Repair Cycle addresses the repair of a component at the AIMD level. Checks will be performed for funds availability, material availability, interchangeability, and source selection before an order is created to issue a RFI part and move the COND F part to the repair location.

At the repair location, a work order is created, the COND F part is repaired and transferred back to supply as RFI. Financial reports are generated to show repair costs and billing status for this repair.



SAP Repair Cycle Demonstration

NAVAL SUPPLY SYSTEMS COMMAND HEADQUE PER MONSTration

Aircraft returns to home base

Avionics Work Center troubleshooting reveals malfunctioning Radar Assembly FI Touchpoint

eate Billing Document (VF0

Billing Block (VFX3)

Radar not tracking Multiple Targets Avionics Work Center orders part from Reg Supply Office

Legacy

Create Transport Order for Material (ME21N)

SAP

quadron Maintenance
Control gives priority
and assigns Avionics
Work Center

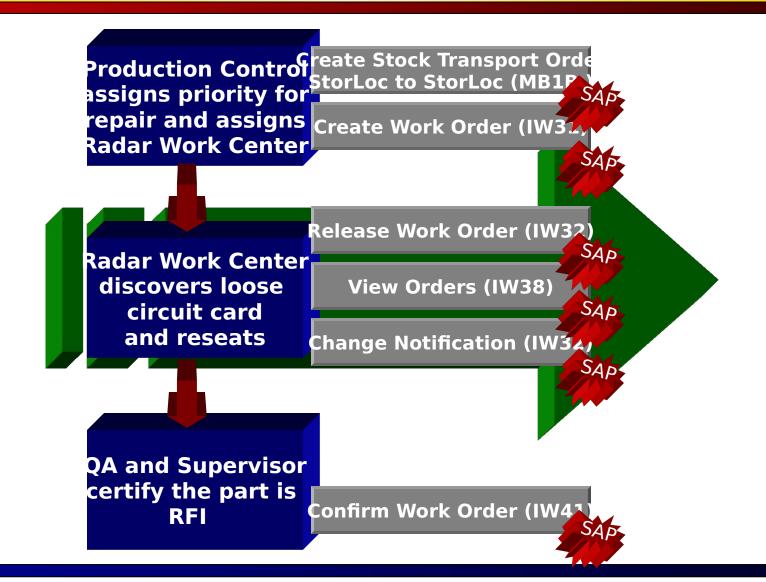
RSO receives order and prepares

goods issue Post Goods Receipt / Issue and goods receipt from Document (VL10 SAP)



SAP Repair Cycle Demonstration

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARES MONSTration





SAP Repair Cycle NAVAL SUPPLY SYSTEMS COMMAND HEADQUARES MONSTration

Production Control ceives confirmation Close Work Order [TECO] that part is RFI

(IW32) SAP

Part is returned to Production Control reate Stock Transport Orde for disposition

StorLoc to StorLoc (MB1P) SAP

Repaired Part is in Supply and RFI



Summary

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|---|
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| Establish common data and practices |
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| Comply with Federal financial standards |
| Enable effective implementation of Activity Based Costing (ABC) |
| Major Terms & Concepts |
| SMART Integrated Scenarios |
| Constrained Planning |
| Order Fulfillment |
| Procure to Pay |
| Repair Cycle |
| SAP Repair Cycle Demonstration |

